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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,325	12/08/2006	Clemens Ottermann	2133.122USU	2196
Charles N. J. Ru	7590 02/11/200 uggiero	EXAMINER		
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.			GRAMLING, SEAN P	
One Landmark Square, 10th Floor Stamford, CT 06901-2682			ART UNIT	PAPER NUMBER
			2875	
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			02/11/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)	Applicant(s)			
		10/565,325	OTTERMANN ET	OTTERMANN ET AL.			
		Examiner	Art Unit				
		SEAN P. GRAMLING	2875				
The MAILING DATE of this co Period for Reply	mmunication app	ears on the cover sheet wi	th the correspondence a	ddress			
A SHORTENED STATUTORY PER WHICHEVER IS LONGER, FROM - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of 1 - If NO period for reply is specified above, the ma: - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	THE MAILING DA rovisions of 37 CFR 1.13 his communication. ximum statutory period w for reply will, by statute, months after the mailing	TE OF THIS COMMUNIC 6(a). In no event, however, may a re ill apply and will expire SIX (6) MON cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this of the ANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to communication	n(s) filed on 12 De	ecember 2008					
2a) ☐ This action is FINAL .	· · ·	action is non-final.					
/ —	<i>,</i> —		ers prosecution as to the	e merits is			
,) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•		,				
·	nd 68 72 islam n	anding in the application					
	Claim(s) 33-46,49-61,65,66 and 68-73 is/are pending in the application.						
5) Claim(s) is/are allowed	4a) Of the above claim(s) is/are withdrawn from consideration.						
· <u> </u>		wai a ata d					
6) Claim(s) <u>33-46, 49-61, 65-66</u>		rejected.					
7) Claim(s) is/are objecte							
8)☐ Claim(s) are subject to	restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is objected to	by the Examine	•.					
10)☐ The drawing(s) filed on	is/are: a) acce	epted or b) objected to l	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Red 3) Information Disclosure Statement(s) (PTO/Paper No(s)/Mail Date		Paper No(s	ummary (PTO-413))/Mail Date ıformal Patent Application ·				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 12, 2008 has been entered.

Claim Objections

- 2. Claims 33, 43, 50, 54 and 73 are objected to because of the following informalities:
- 3. Regarding claim 33, in lines 7-8, Applicant recites "the glass substrate". There is insufficient antecedent basis for this limitation in the claim. Also in lines 12-13, Applicant recites "the conductivity electrode layers". There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.
- 4. Regarding claim 43, in line 2, Applicant recites "the substrate". There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.
- 5. Regarding claim 50, in line 2, Applicant recites "the light guidance direction". There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

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6. Regarding claim 54, in line 2, Applicant recites "the light guidance direction". There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

7. Regarding claim 73, the claim improperly depends on itself. Appropriate correction is required.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 33-42, 45-46, 52, 58-61 and 68-71 are rejected under 35 U.S.C. 102 (b) as being anticipated by *Budd et al* (US 2001/0030320).
- 10. Regarding claim 33, Budd discloses a luminous element with a light-guiding device in which light is guided by reflection, the light-guiding device comprising at least one light-scattering area (body of light guiding plate 32) to which light-scattering structures can be applied, and at least one light entry surface (side surface of light guiding plate 32), and at least one OLED 10 is coupled to the light entry surface, the light-guiding device comprising a light guiding plate 32 and a glass substrate 14 being plate-shaped and being coupled with the aid of an edge surface to the light-guiding device, wherein the at least one OLED is of strip-shaped form and includes contact surfaces 18, 22 that extend along the longitudinal direction of the OLED, the contact

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surfaces forming busbars for supporting the conductivity of electrode layers 16, 24 of the OLED (see Figures 1a, 1b, and 2, and paragraphs [0025], [0026], and [0041]).

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- 11. Regarding claim 34, the light-scattering area in Budd comprises a light-scattering structure (see Figure 2 and paragraph [0041]).
- 12. Regarding claim 35, the light-guiding device in Budd comprises transparent material 14 (see paragraph [0025] and Figures 1a and 2).
- 13. Regarding claim 36, the transparent material 14 in Budd is comprised of glass (see paragraph [0025]).
- 14. Regarding claim 37, the light entry surface in Budd is arranged at an edge surface of the light guiding plate 32 (see Figure 2).
- 15. Regarding claim 38, the light entry surface in Budd adjoins an edge surface of the plate 32 (see Figure 2).
- 16. Regarding claim 39, the light guiding device in Budd has an elongated shape (see Figure 2).
- 17. Regarding claim 40, the light entry surface in Budd comprises at least one end face (see Figure 2).
- 18. Regarding claim 41, the light entry surface in Budd comprises at least one face at one of the ends of the light-guiding plate (see Figure 2).
- 19. Regarding claim 42, the light entry surface in Budd is arranged on at least one side of the light guiding plate (see Figure 2).
- 20. Regarding claim 45, the light entry area in Budd comprises the light entry surface (see Figure 2).

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- 21. Regarding claim 46, the light entry area in Budd comprises the OLED 10 (see Figure 2).
- 22. Regarding claim 52, the light-scattering structure in Budd is arranged in the interior of the light-guiding device (see Figure 2).
- 23. Regarding claim 58, the luminous element in Budd is characterized by a number of OLEDs 10 coupled to light entry surfaces (see Figure 3).
- 24. Regarding claim 59, the luminous element in Budd is characterized in that the several OLEDs 10 emit light of different colors (see Figure 3).
- 25. Regarding claim 60, Budd discloses an OLED that emits white light (se paragraph [0006]).
- 26. Regarding claim 61, the light-scattering area in Budd has a light exit surface (upper surface of light guiding device 32) which is larger than the light entry surface of the light guiding device 32 (see Figure 2).
- 27. Regarding claim 68, Budd discloses a luminous element with a light-guiding device in which light is guided by reflection, the light-guiding device comprising a light entry surface (light entry surface of light guide 32 or light entry surface of glass plate 14); an OLED 10 having a transparent electrode layer 16 coupled to the light entry surface, a second electrode layer 24 and one or more electroluminescent layers 20 arranged between the transparent and second electrode layers; a first contact surface 18 along a longitudinal direction of the OLED, the first contract surface 18 in electrical contact with the transparent electrode layer 16; and a second contact surface 22 in electrical contact with the second electrode layer 24, the first and second contact

surface in electrical contract with the second electrode layer, the second contact surfaces serving as busbars for supporting the transparent and second electrode layers 16, 24 (see Figure 1a and paragraphs [0025]-[0027]).

- 28. Regarding claim 69, the transparent electrode layer 16 in Budd comprises an indium tin oxide layer (see paragraph [0025]).
- 29. Regarding claim 70, the transparent electrode layer 16 in Budd is deposited directly on the light entry surface of glass plate 14 (see Figure 1a).
- 30. Regarding claim 71, the transparent electrode layer 16 in Budd is applied to a glass substrate 14, the glass substrate being coupled to the light entry surface (see Figures 1a and 2).
- 31. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 32. **Claims 33-46, 49-61, 65-66 and 68-73** are rejected under 35 U.S.C. 102 (e) as being anticipated by *Duggal et al* (US 6,777,871).
- 33. Regarding claim 33, Duggal discloses a luminous element with a light-guiding device in which light is guided by reflection, the light-guiding device (3 or 8) comprising at least one light-scattering area (body of devices 3 or 8) to which light-scattering structures can be applied, and at least one light entry surface (light entry surface of

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element 3 or 8), and at least one OLED 1 is coupled to the light entry surface, the light-guiding device comprising a light guiding plate (3 or 8) and a glass substrate 5 being plate-shaped and being coupled with the aid of an edge surface to the light-guiding device, wherein the at least one OLED is of strip-shaped form and includes contact surfaces 162, 164 that extend along the longitudinal direction of the OLED, the contact surfaces forming busbars for supporting the conductivity of electrode layers 130, 120 of the OLED (see Figures 1-4 and 9-10 and column 5, line 51 through column 8, line 55 and column 12, line 55 through column 13, line 64).

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- 34. Regarding claim 34, the light-scattering area in Duggal comprises a light-scattering structure (see Figures 1-3).
- 35. Regarding claim 35, the light-guiding device 3 or 8 in Duggal comprises a transparent material (see column 5, line 55).
- 36. Regarding claim 36, the transparent material in Duggal comprises one of the group consisting of glass and coated glass and laminate glass and glass plastic laminate and a fluid (see column 6, lines 14-30).
- 37. Regarding claim 37, the light entry surface in Duggal is arranged at an edge surface of the light guiding plate 3, 8 (see Figures 1-3).
- 38. Regarding claim 38, the light entry surface in Duggal adjoins an edge surface of the plate 3, 8 (see Figures 1-3).
- 39. Regarding claim 39, the light-guiding device in Duggal has an elongated prismatic shape (see Figures 1-2).

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- 40. Regarding claim 40, the light entry surface in Duggal comprises at least one end face (see Figures 1-3).
- 41. Regarding claim 41, the light entry surface in Duggal comprises at least one face at one of the ends of the light-guiding device (see Figures 1-3).
- 42. Regarding claim 42, the light entry surface in Duggal is arranged on at least one side of the light guiding plate (see Figures 1-3).
- 43. Regarding claim 43, Duggal discloses a flexible substrate 160 of the OLED (see Figure 12 and column 16, lines 40-63).
- 44. Regarding claim 44, the substrate 160 in Duggal comprises one of the group consisting of a polymer, extremely thin glass and polymer (see column 16, lines 40-63).
- 45. Regarding claim 45, the light entry surface in Duggal comprises a light entry area (see Figures 1-3).
- 46. Regarding claim 46, the light entry area in Duggal comprises one of the group consisting of the OLED 1, at least one specular reflective surface and an optical grating (see Figures 1-3).
- 47. Regarding claim 49, the OLED in Duggal is coupled to the light-guiding device by a transparent bonded joint matched from refractive power (see column 6, lines 31-40).
- 48. Regarding claim 50, Duggal teaches that the substrate 160 for the OLED's and the accompanying components (such as the light entry input surface of light guide 145) may be curved (see Figure 11 and column 17, lines 43-60). Accordingly, Duggal teaches that the light entry surface can be arranged obliquely to the light guidance direction.

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49. Regarding claim 51, Duggal teaches that the substrate 160 for the OLED's and the accompanying components (such as the light entry input surface of light guide 145) may be curved (see Figure 11 and column 17, lines 43-60).

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- 50. Regarding claim 52, the light-scattering structure in Duggal is arranged in the interior of the light-guiding device (see Figure 3).
- 51. Regarding claim 53, the light-scattering structure in Duggal comprises a roughened surface (see Figures 1-2).
- 52. Regarding claim 54, the roughness in Duggal increases along the light guidance direction (see Figures 1-2).
- 53. Regarding claim 55, the light-scattering structure in Duggal can be colored (see column 15, lines 47-51).
- 54. Regarding claim 56, the light-scattering structure in Duggal comprises one of a raised pyramid structure and a recessed pyramid structure and a convex lens and a concave lens and a raised prism and a recessed prism and a convex cylindrical lens and a concave cylindrical lens (see Figures 1-2).
- 55. Regarding claim 57, the light-scattering structure in Duggal comprises optical grating (see Figures 1-2).
- 56. Regarding claim 58, the luminous element in Duggal comprises a number of OLEDs coupled to the light entry surface (see Figure 12).
- 57. Regarding claim 59, the number of OLEDs in Duggal can emit different colors (column 14, lines 61-65).

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58. Regarding claim 60, the OLED in Duggal emits white light (see column 14, lines 32-36).

- 59. Regarding claim 61, the light-scattering area in Duggal has a light exit surface that is larger (in surface area) than the light entry surface of the light-guiding device (see Figures 1-2).
- 60. Regarding claim 65, the light-guiding device in Duggal has an annularly bent shape (see Figures 1-2 and the light-scattering area on the output surface).
- 61. Regarding claim 66, the light-guiding device in Duggal has a prismatic form (see Figures 1-2).
- 62. Regarding claim 68, Duggal discloses a luminous element with a light-guiding device in which light is guided by reflection, the light-guiding device comprising a light entry surface (light entry surface of element 3 or 8 or 145 or light entry surface of glass substrate 5 or 125); an OLED 1 having a transparent electrode layer 130 coupled to the light entry surface, a second electrode layer 120 and one or more electroluminescent layers 110 arranged between the transparent and second electrode layers; a first contact surface 162 along a longitudinal direction of the OLED, the first contract surface in electrical contact with the transparent electrode layer 130; and a second contact surface 164 in electrical contact with the second electrode layer 120, the second contact surface in electrical contract with the second electrode layer, the first and second contact surfaces serving as busbars for supporting the transparent and second electrode layers (see Figures 1-4 and 9-10 and column 5, line 51 through column 8, line 55 and column 12, line 55 through column 13, line 64).

- 63. Regarding claim 69, the transparent electrode layer 130 in Duggal comprises an indium tin oxide layer (see column 8, lines 34-38).
- 64. Regarding claim 70, the transparent electrode layer 130 in Duggal is deposited directly on the light entry surface of substrate 125(see Figures 4 and 9).
- 65. Regarding claim 71, the transparent electrode layer 130 in Duggal is applied to a glass substrate 125, the glass substrate being coupled to the light entry surface (see Figures 1 and 3).
- 66. Regarding claim 72, the first and second contact surface 162, 164 in Duggal each comprises a portion extending on opposite lateral surfaces on the light-entry surface of substrate 125 (see Figures 9-10 and column 13, lines 24-64).
- 67. Regarding claim 73, a portion of the first and second contact surfaces 162, 164 in Duggal are reflective surfaces (see Figure 9 and column 16, lines 14-21).

Response to Arguments

68. Applicant's arguments with respect to the rejection of claims in the previous Office Action have been considered but are moot in view of the new grounds of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN P. GRAMLING whose telephone number is

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(571)272-9082. The examiner can normally be reached on MONDAY-FRIDAY 7:30

AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sean P Gramling Examiner

Art Unit 2875

/SPG/

/Sharon E. Payne/

Primary Examiner, Art Unit 2875